Philippine Rural Development Project Environmental and Social Management Plan

Name of Road : Rehabilitation/Upgrading of MAGASSI--CAMASI FMR
Location : Brgys. Magassi, Union Cabagan, Isabela and Camasi,

Tumauini Isabela

Implementing LGU : Provincial Government of Isabela

Number of beneficiaries : 5,538 Population

1,139 Household

Existing Graveled Road : Rehabilitation and Upgrading

Estimated Total Cost : P40,648,000.00

A. Site and Design Consideration

1. The Road does not encroach into or traverse any declared protected area of natural habitat and or ancestral domain claims of Indigenous Cultural Communities.

- 2. The sub-project have no recorded and or assessed any monument or physical structure of known cultural and historical significance.
- 3. That the sub-project does not displace any person, property either of any person or indigenous cultural communities.

B. Environmental Issues and Mitigation Measures

Issue (Potential Impact)	Assessment (Sample assessments)	Mitigation Measure	Schedule or duration of Mitigation Measures	Instrumen t of Implemen tation (POW, Contract, IDP, or O &M Plan)	Responsi ble Unit
1. Temporary increase in sedimentatio n during construction	Topography of the road alignment necessitate massive earthmoving and cutting of clayey or loose top soil	Proper disposal and compaction of spoils	Upon implementation to completion of project	DED/POW; Contract	Contractor PEO ENRO/SES M & E
2. Potential contaminati on of surface and groundwater with oil/grease 3. Potential	There will be no or insignificant amount of waste oil/grease Workers would	Proper handling and disposal of waste oil and grease Set up	During construction period From start to	Contract	Contractor M & E ENRO/SES

contaminati	be mostly locals	adequate	finish		
on with	and are expected	latrine/toilet			M & E
human	to go home to	facility at the			MCE
waste	their respective houses after	base camp			
	works				
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4. Potential disruption of	The construction will not affect	Keep the road open to	From the beginning of	Contract	PEO
traffic flow	daily movement	traffic flow	construction until		Contactor
	of residents and	and minimize	formal turn over		
	farmers	disruptions			
		along the			
		access road and/or			
		construction			
		area; Provide			
		adequate 			
		warning signs and traffic			
		personnel			
		when			
		necessary;			
5. Potential	Roads could	Undertake	During execution	Contractor	PEO
dust/mud	become powdery	sprinkling of	During excavation periods from the	Contractor	PEU
nuisance	during dry days	road	beginning of		
during	and muddy	(including	construction	And	PPDO
construction	during rainy days	access roads)	period or upon		
	of the construction	during dry days, and	completion of sub-project.		
	period	filling up of	Sub-project.	Monitoring	Contractor
		potholes		and	
		during rainy	Put up sinages at	Evaluation Unit	
		days,	strategic points.	Offic	
		especially in residential			
		areas			
	Access road				
	and/or construction/reh	Set up speed limits for			
	abilitation does	vehicles,			
	not pass through	especially			
	any populated	within			
	area	residential areas			
6. Landslide/ erosion of	The road passes through a	Include slope protection	During construction	DED/POW	
erosion of	relatively benign	works at the	period	LGU	
road sides	terrain, cuts will	following	1	Commitme	
resulting in	be minimal	stations: Sta.		nt Letter	

sedimentatio n of waterways		2+220-2+240, 2+420- 2+245,2+800- 2+890, 4+320- 4+410 and 4+700-4+715		Monitoring and Evaluation team of the PPMIU	
7. Inadequate drainage resulting in flooding or ponding	Drainage issues unlikely	Lined canal at Sta. 3+940; 4+220; 4+913; 5+760; 6+200; 6+200	Refer to RCPC, Lined Canal and slope protection	DED	OPE ENRO-SES M & E
8. Potential increase in encroachme nts of human activities into the nearby public forest	The proposed road does not improve access to a public forest	Coordinate with DENR for the portion of the Timberland for the issuance of Special Land Use Permit on tree plantation establishment /pasture areas for dairy/ to provide alternative livelihood to residents of the area.	From the start of project and to extend for a period of ten years to sustain rehabilitation efforts	O&M Plan; Capacity Building Plan;.ESMP	Dairy Multi- Purpose Cooperati ve ENRO-SES PPDO/M7 E LGUs
9. Local employm ent	Construction will provide local employment opportunities	Hiring ority shall given to alified local sidents; plement RI nual on local ing	During construction	Contract/P OW Labor Cost of project (skilled and Unskilled) =Php 1,286,233.	Contractor
10. Conversion of Land- use/natural habitat due to quarry	Quarry site is existing and proven as a good source of quarry materials	Quarry materials will be procured to existing quarry sites at Minanga,	15,000 cubic meters more or less of sand and gravel aggregates shall be transported from	Programs of Work	PEO – Contractor

		Arcon and Fugu Abajo, Tumauini, Isabela. Certification attached that quarrying has no adverse impacts to the environment	the quarry site to the sub-project area.		
11. Potential damage to existing road due to hauling of quarry materials	source of quarry materials is 20 km. Transportation of quarry materials from source to FMR will cause damage to existing FMR	regular maintenance and repair of existing road from national road to the project site is more or less 2-kilometers	During construction period	Contract	PEO ENRO
12. Possible discovery of artifacts, bones and other objects of interests during construction of the farm to market road	Discovery of artifacts, bones and other objects of interests within the 10 meter radius	Suspension of the activities and immediately report to the PLGU and RPCO-SES Focal Person	During construction	Contract	Contractor
13. Occupational Health Hazards to Workers during operation	Operations do not expose workers to hazardous/unsaf e condition	-provide safety guidelines for workers (safety gear at work, handling of equipment, etc) -Put up safety signs in working areas	Project Operation period	O & M	
		-Provide potable water and sanitary facilities to			

14. Conflict arising from conflicts/co mplaints about effects of the project activities	Grievance investigation and resolution process	-Provide first aid kits in strategic areas -Provide personal protective equipment Review of policies instituted in the IESSF	Before, during and decommissioning process	Operations Manuel/Ex ecutive Order No. 13, s. 2015	Project proponent /LGUs
14. BATCHING PLANT operability	Dust emissions/noise pollution	Daytime Operations only/use of water on dust elimination	During construction/ope ration/ECC submission prior to operation	Contract	Contractor

Prepared by: Certified correct:

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